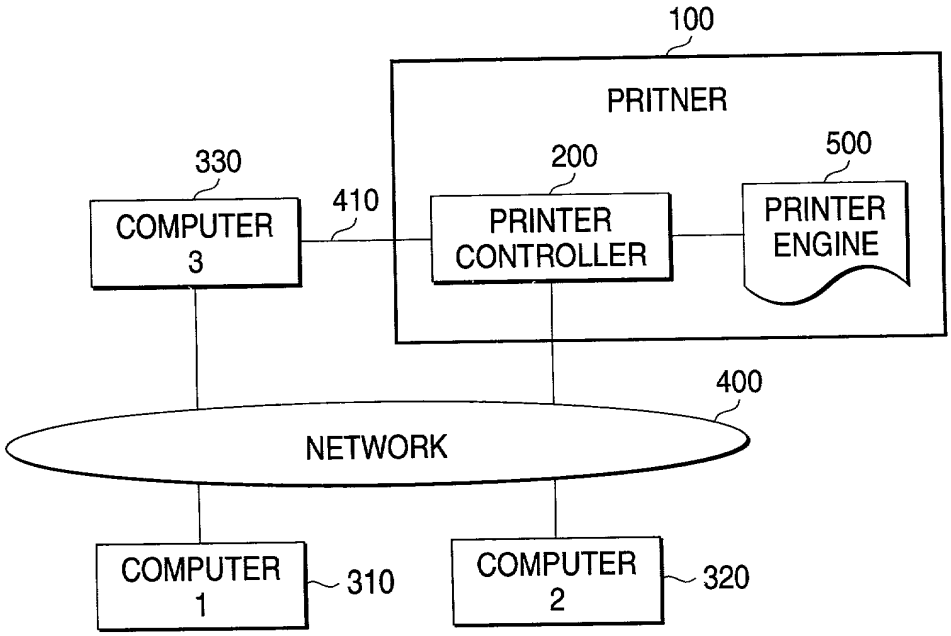
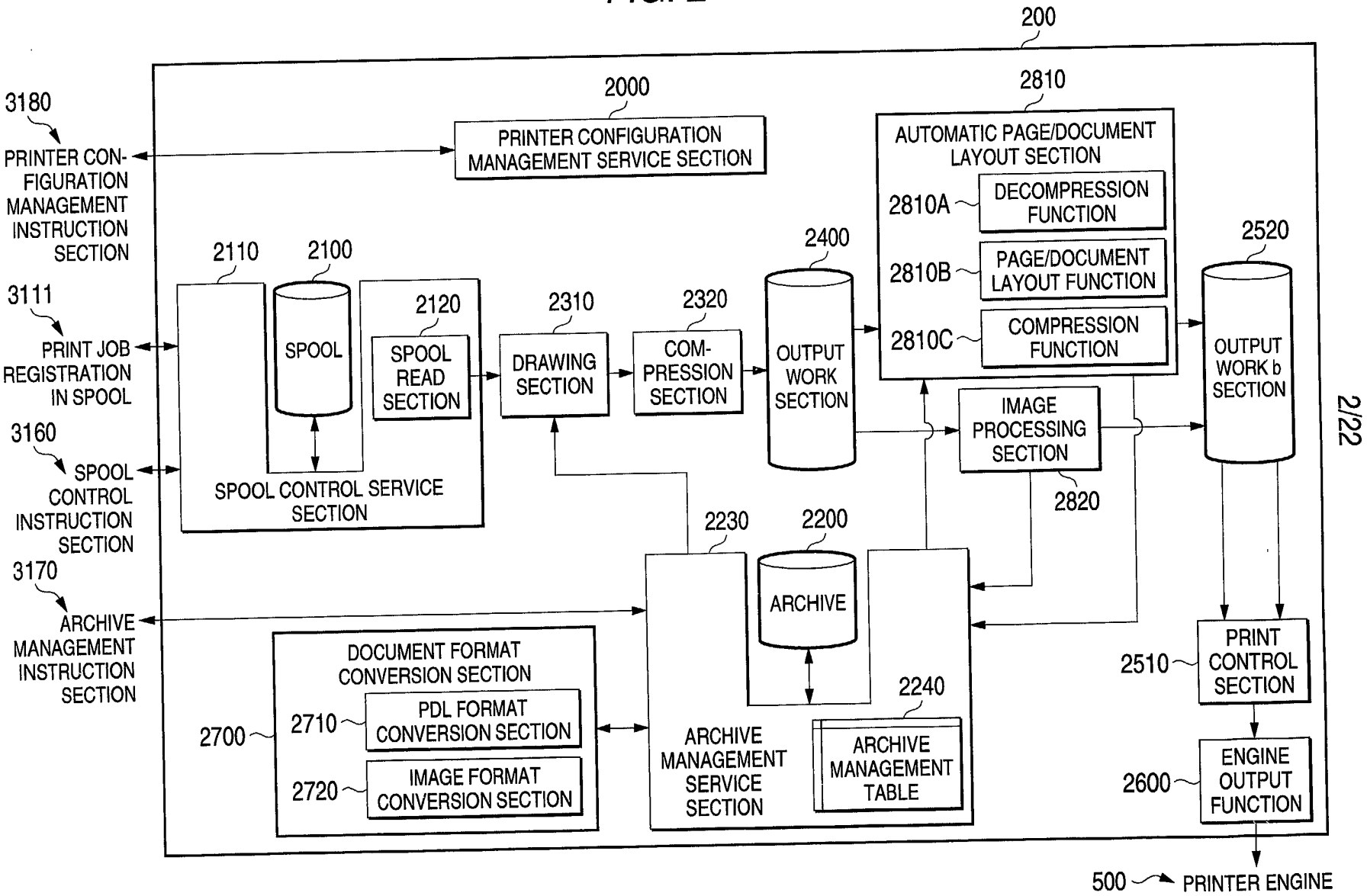
FIG. 1



Document ID: US 6,549,302 B1

TOET20 "X89E0660

FIG. 2



TOETZO"+89E0660

FIG. 3

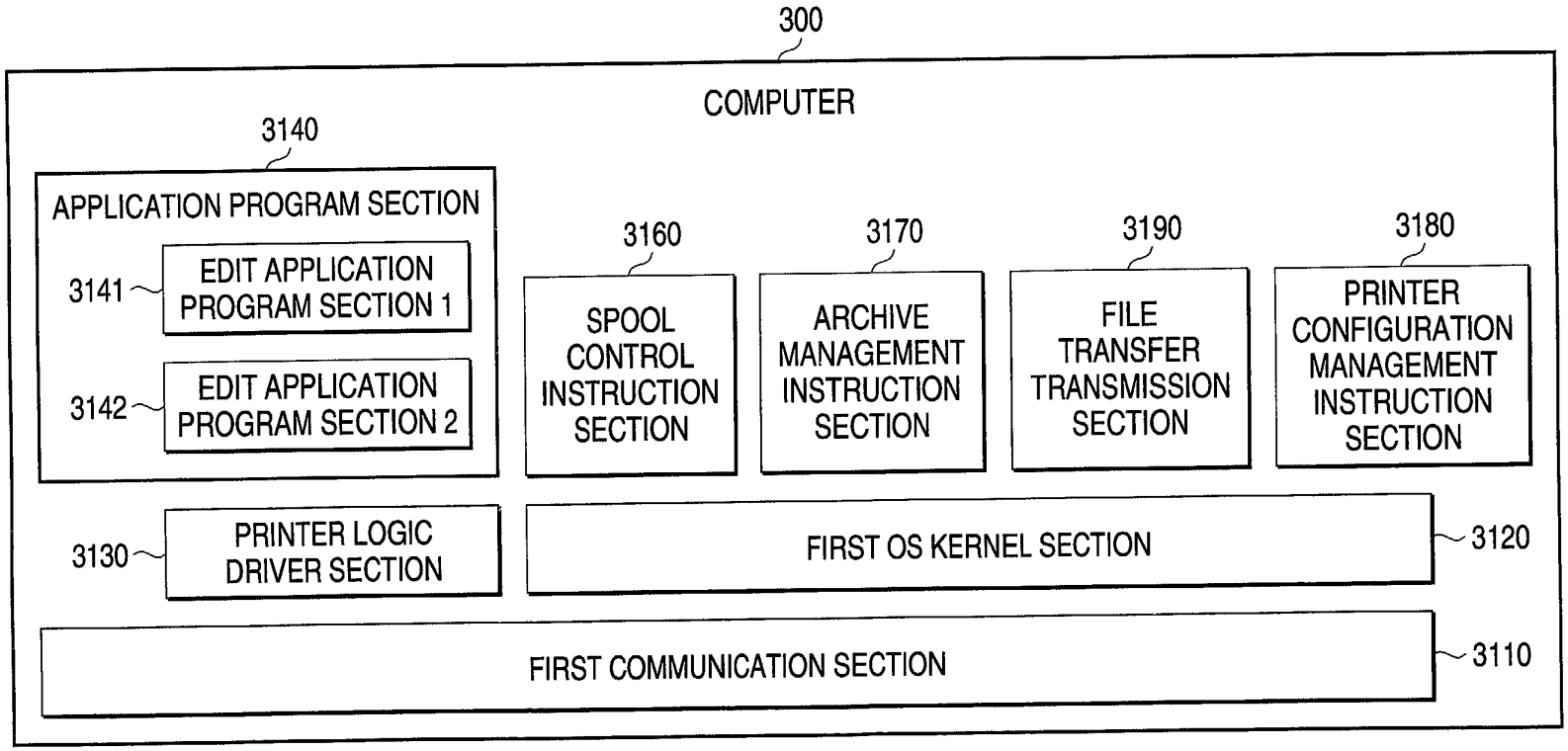


FIG. 4

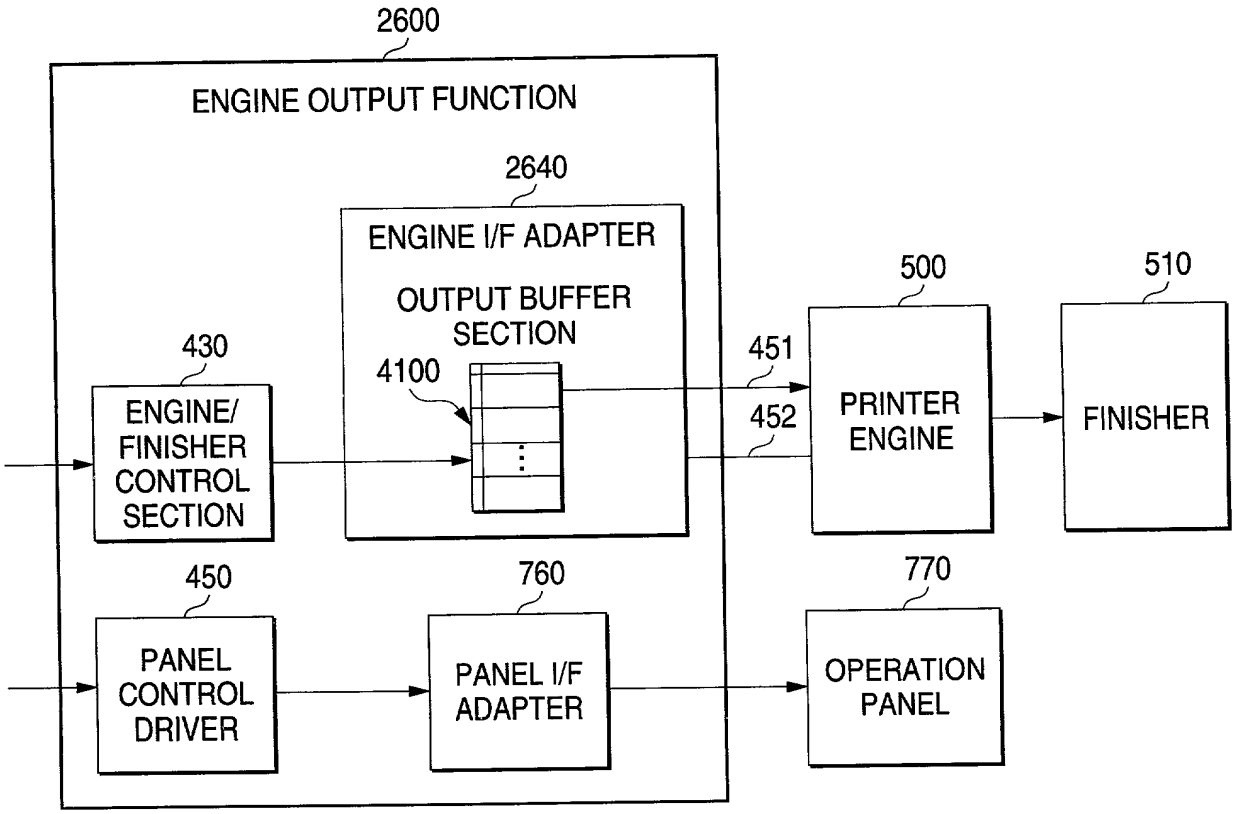
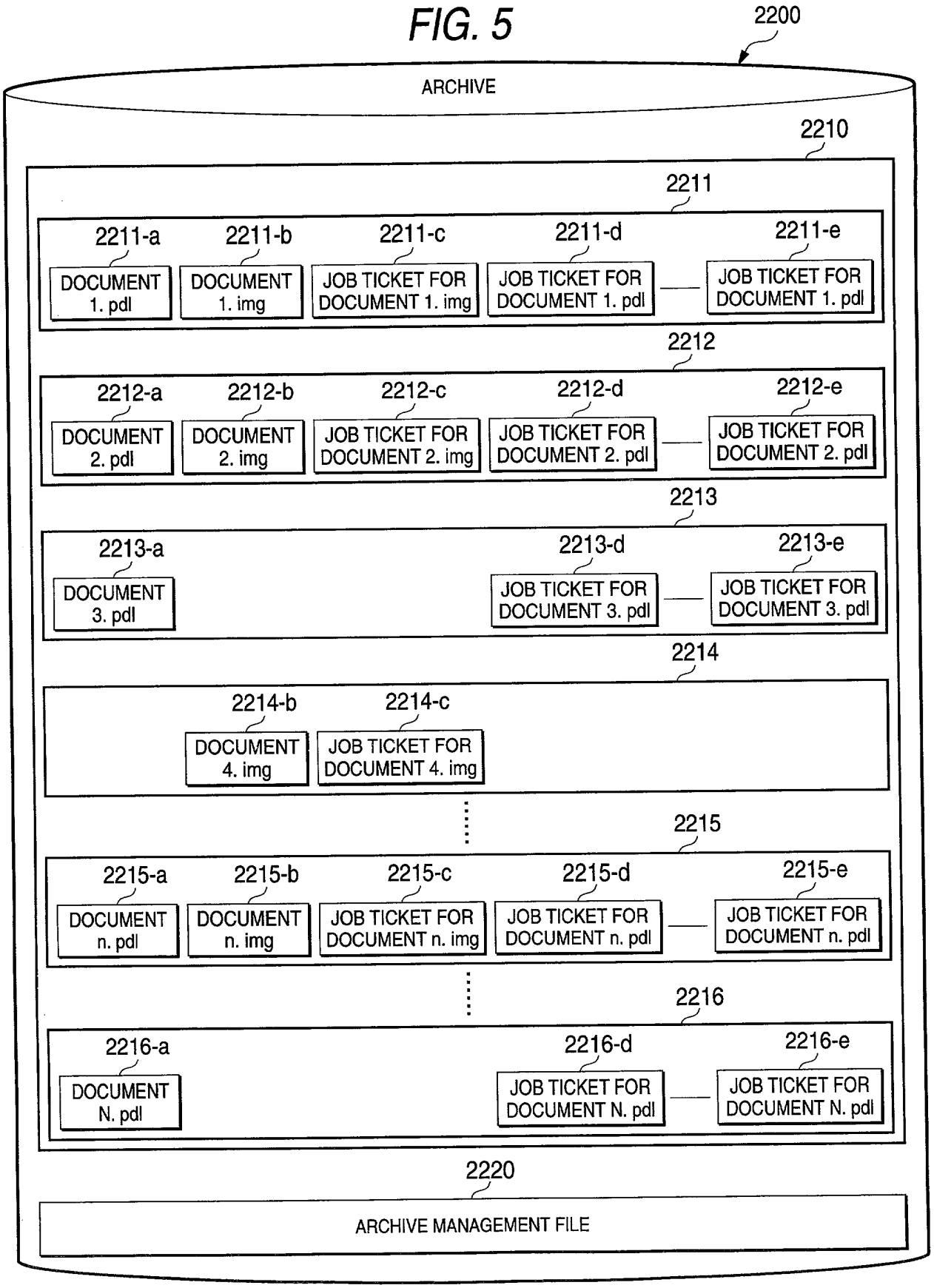

2600
ENGINE OUTPUT FUNCTION
2640
ENGINE I/F ADAPTER
OUTPUT BUFFER SECTION
4100
430
ENGINE/ FINISHER CONTROL SECTION
450
PANEL CONTROL DRIVER
760
PANEL I/F ADAPTER
451
452
500
PRINTER ENGINE
510
FINISHER
770
OPERATION PANEL

FIG. 5


2200
ARCHIVE
2210
2211
2211-a
DOCUMENT 1. pdl
2211-b
DOCUMENT 1. img
2211-c
JOB TICKET FOR DOCUMENT 1. img
2211-d
JOB TICKET FOR DOCUMENT 1. pdl
2211-e
JOB TICKET FOR DOCUMENT 1. pdl
2212
2212-a
DOCUMENT 2. pdl
2212-b
DOCUMENT 2. img
2212-c
JOB TICKET FOR DOCUMENT 2. img
2212-d
JOB TICKET FOR DOCUMENT 2. pdl
2212-e
JOB TICKET FOR DOCUMENT 2. pdl
2213
2213-a
DOCUMENT 3. pdl
2213-d
JOB TICKET FOR DOCUMENT 3. pdl
2213-e
JOB TICKET FOR DOCUMENT 3. pdl
2214
2214-b
DOCUMENT 4. img
2214-c
JOB TICKET FOR DOCUMENT 4. img
2215
2215-a
DOCUMENT n. pdl
2215-b
DOCUMENT n. img
2215-c
JOB TICKET FOR DOCUMENT n. img
2215-d
JOB TICKET FOR DOCUMENT n. pdl
2215-e
JOB TICKET FOR DOCUMENT n. pdl
2216
2216-a
DOCUMENT N. pdl
2216-d
JOB TICKET FOR DOCUMENT N. pdl
2216-e
JOB TICKET FOR DOCUMENT N. pdl
2220
ARCHIVE MANAGEMENT FILE

TOETZO" h89E0660

FIG. 6

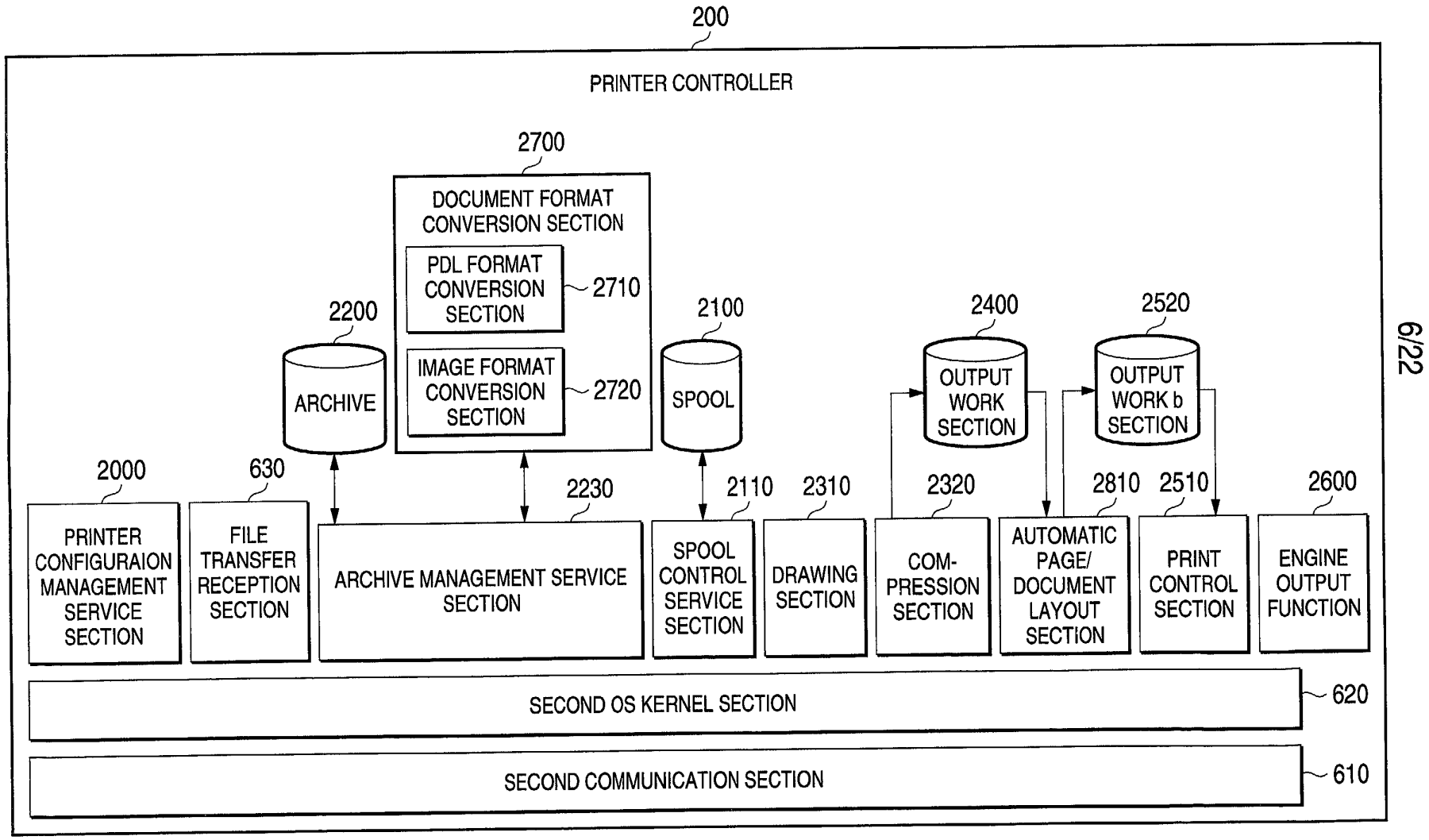


FIG. 7

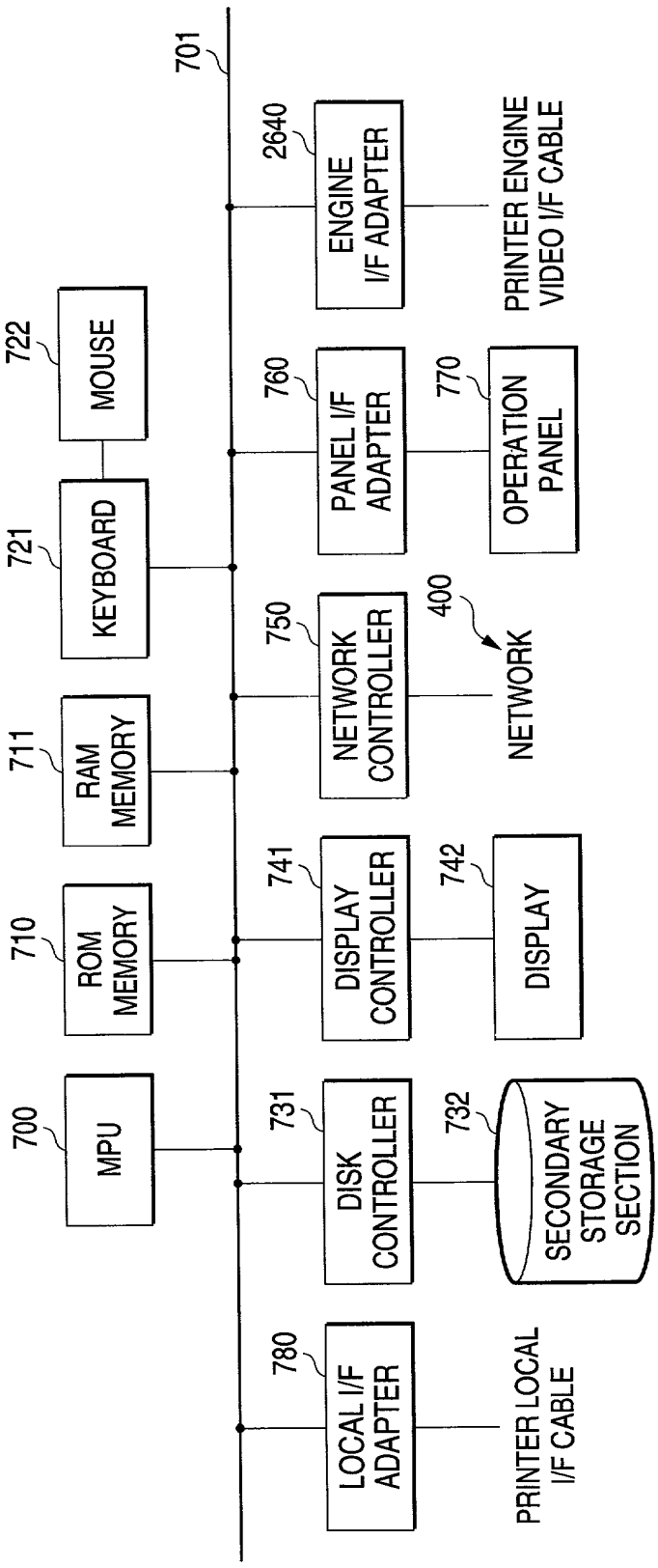

701
700
MPU
710
ROM MEMORY
711
RAM MEMORY
721
KEYBOARD
722
MOUSE
741
DISPLAY CONTROLLER
742
DISPLAY
750
NETWORK CONTROLLER
400
NETWORK
760
PANEL I/F ADAPTER
770
OPERATION PANEL
2640
ENGINE I/F ADAPTER
PRINTER ENGINE VIDEO I/F CABLE
731
DISK CONTROLLER
732
SECONDARY STORAGE SECTION
780
LOCAL I/F ADAPTER
PRINTER LOCAL I/F CABLE

FIG. 8

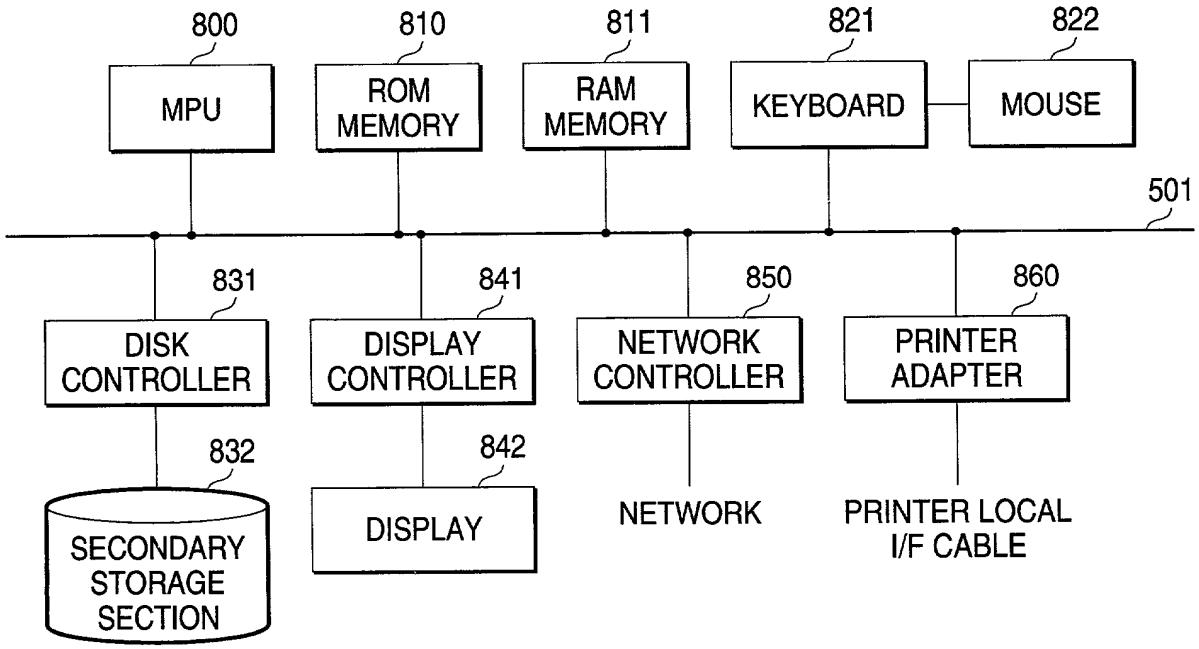


FIG. 9

● MAIN MENU

ARCHIVER | MANAGER | ADMIN

PRINTER MANAGEMENT

ARCHIVE MANAGEMENT
MANAGES AND EDITS PRINT JOBS REGISTERED IN HD PRINTER (STORAGE SECTION)

MANAGER
IS A PRINTER MANAGER FOR MANAGING PRINTER STATE

CONFIGURATION MANAGEMENT (THAT CAN BE ACCESSED ONLY BY ADMINISTRATOR)
PERFORMS FAULT MAINTENANCE MANAGEMENT OF PRINTER, SCANNER OR ANY OTHER COMPONENT

FIG. 10

ARCHIVE MANAGEMENT PAGE (NO. 1)

HOME | ARCHIVER | MANAGER

FOLDER TOOL MENU ▼

- C:¥
  - f1
    - f1_a
    - f1_b
  - f2
    - f2_a
  - f3

DOCUMENT TOOL MENU ▼ | CHANGE THE DOCUMENT

OPENED FOLDER: C:¥

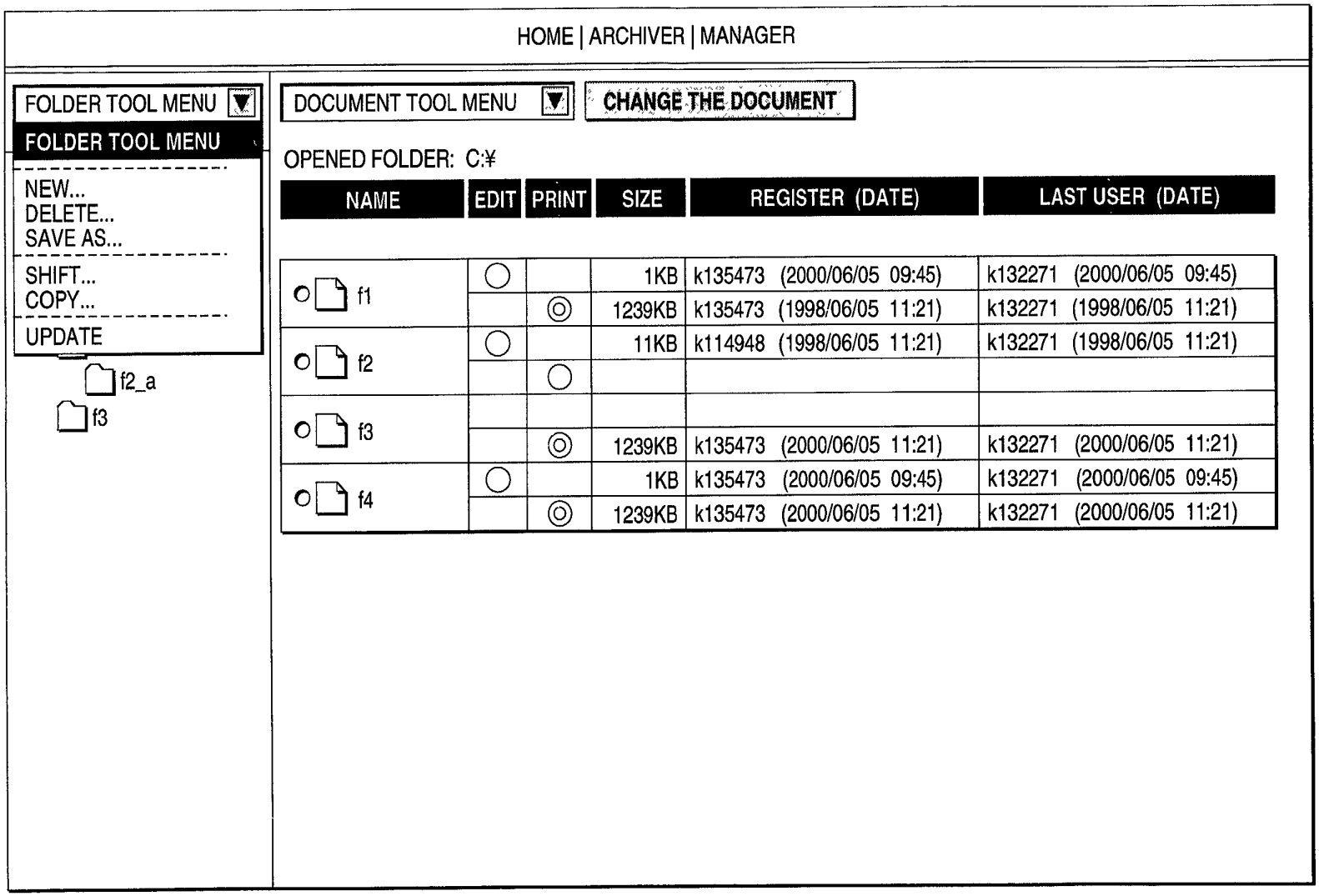
NAME	EDIT	PRINT	SIZE	REGISTER (DATE)	LAST USER (DATE)
f1	○		1KB	k135473 (2000/06/05 09:45)	k132271 (2000/06/05 09:45)
		◎	1239KB	k135473 (1998/06/05 11:21)	k132271 (1998/06/05 11:21)
f2	○		11KB	k114948 (1998/06/05 11:21)	k132271 (1998/06/05 11:21)
		○			
f3					
		◎	1239KB	k135473 (2000/06/05 11:21)	k132271 (2000/06/05 11:21)
f4	○		1KB	k135473 (2000/06/05 09:45)	k132271 (2000/06/05 09:45)
		◎	1239KB	k135473 (2000/06/05 11:21)	k132271 (2000/06/05 11:21)

TOETZO"h89E0660

FIG. 11

ARCHIVE MANAGEMENT PAGE (NO. 2)

PROCESSING CONCERNING FOLDERS

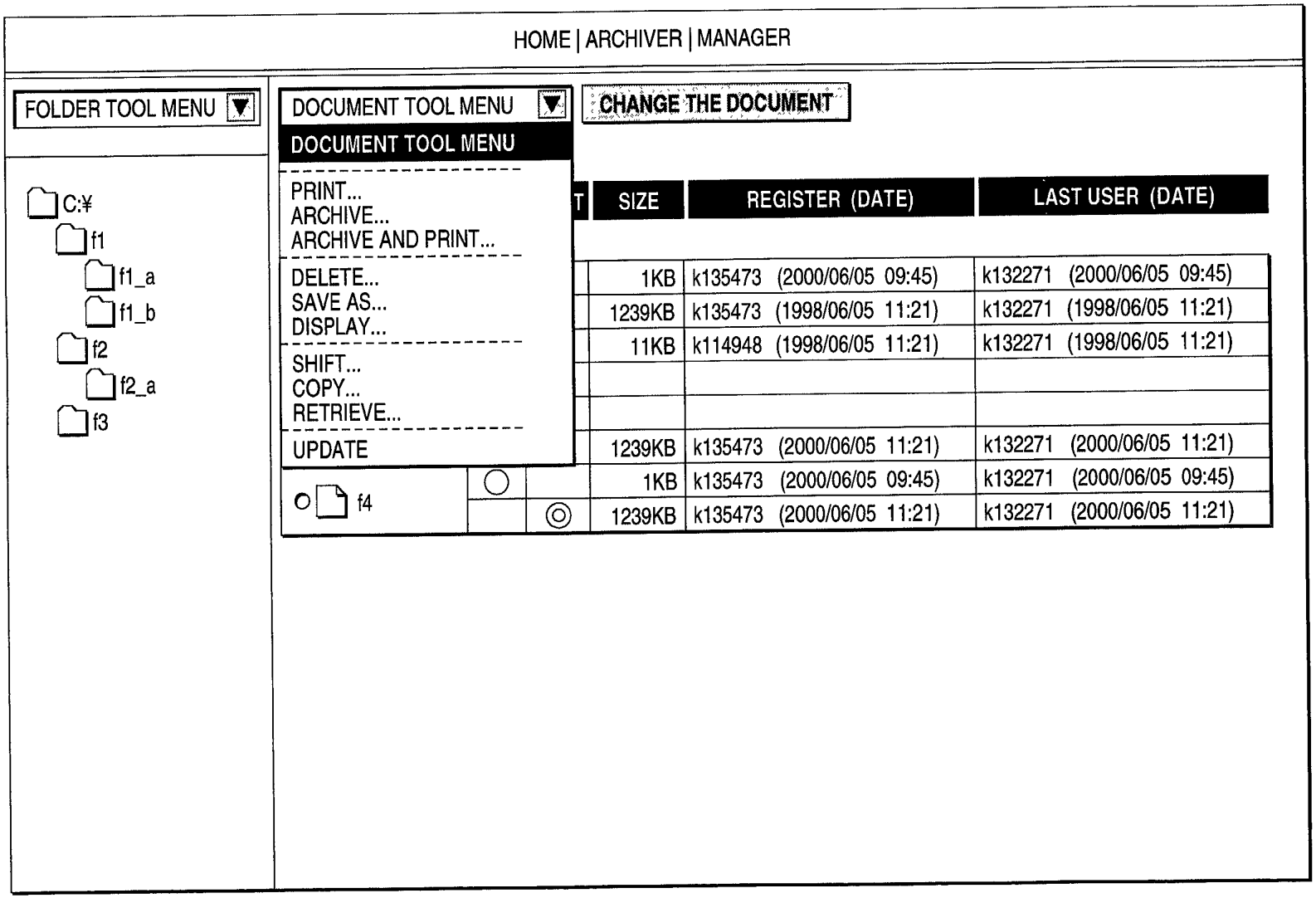


TOETZ0"h89E0660

FIG. 12

ARCHIVE MANAGEMENT PAGE (NO. 3)

PROCESSING CONCERNING DOCUMENTS



TOET20"h89E0660

FIG. 13

● MANAGER (NO. 1)

HOME | ARCHIVER | MANAGER | ADMIN

SELECT MENU AFTER SELECT THE JOB, CONCERNING PRINT-JOB.

PRINTER MENU ▼ PRINT-JOB MENU ▼ HELP!

PRINTER: PRINTER (JOB NUMBERS: 3)

PRINT JOB	STATUS	USER	PRIORITY	NUMBER OF PAGES	SIZE	RECEPTION TIME
☐ aaa	RESERVATION	Administrator	1	0	1,110	17:43
☐ bbb	RESERVATION	kuma	2	2	200	17:44
☐ ccc	RESERVATION	aka	2	2	200	17:45

FIG. 14

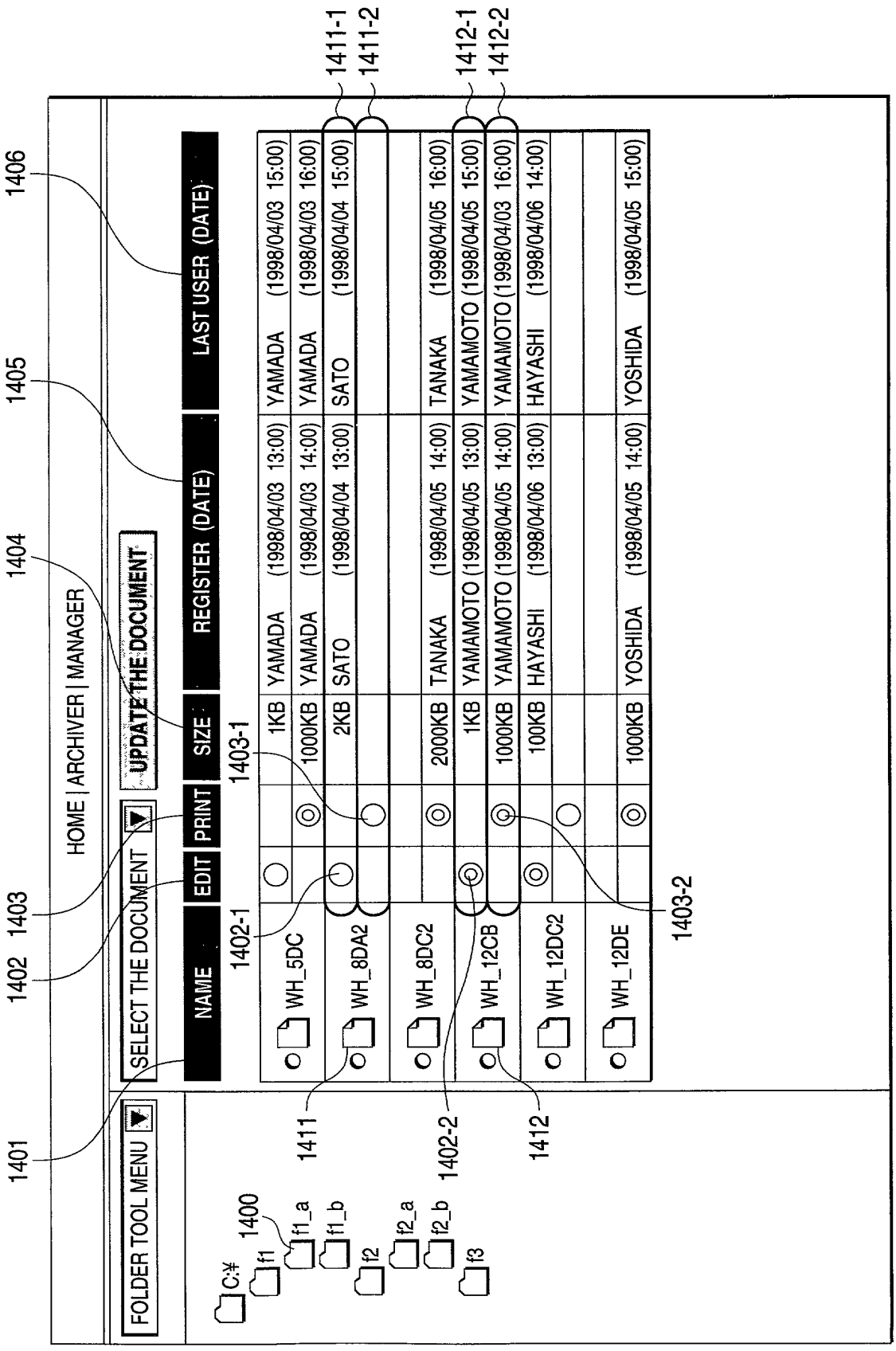

1401
1402
1403
1404
1405
1406
HOME | ARCHIVER | MANAGER
FOLDER TOOL MENU
SELECT THE DOCUMENT
EDIT
PRINT
UPDATE THE DOCUMENT
NAME
SIZE
REGISTER (DATE)
LAST USER (DATE)
1402-1
1403-1
1411-1
1411-2
1412-1
1412-2
1411
1402-2
1412
1403-2
1400
C:¥
f1
f1_a
f1_b
f2
f2_a
f2_b
f3
WH_5DC 1KB YAMADA (1998/04/03 13:00) YAMADA (1998/04/03 15:00)
1000KB YAMADA (1998/04/03 14:00) YAMADA (1998/04/03 16:00)
WH_8DA2 2KB SATO (1998/04/04 13:00) SATO (1998/04/04 15:00)
WH_8DC2 2000KB TANAKA (1998/04/05 14:00) TANAKA (1998/04/05 16:00)
WH_12CB 1KB YAMAMOTO (1998/04/05 13:00) YAMAMOTO (1998/04/05 15:00)
1000KB YAMAMOTO (1998/04/05 14:00) YAMAMOTO (1998/04/03 16:00)
WH_12DC2 100KB HAYASHI (1998/04/06 13:00) HAYASHI (1998/04/06 14:00)
WH_12DE 1000KB YOSHIDA (1998/04/05 14:00) YOSHIDA (1998/04/05 15:00)

FIG. 15

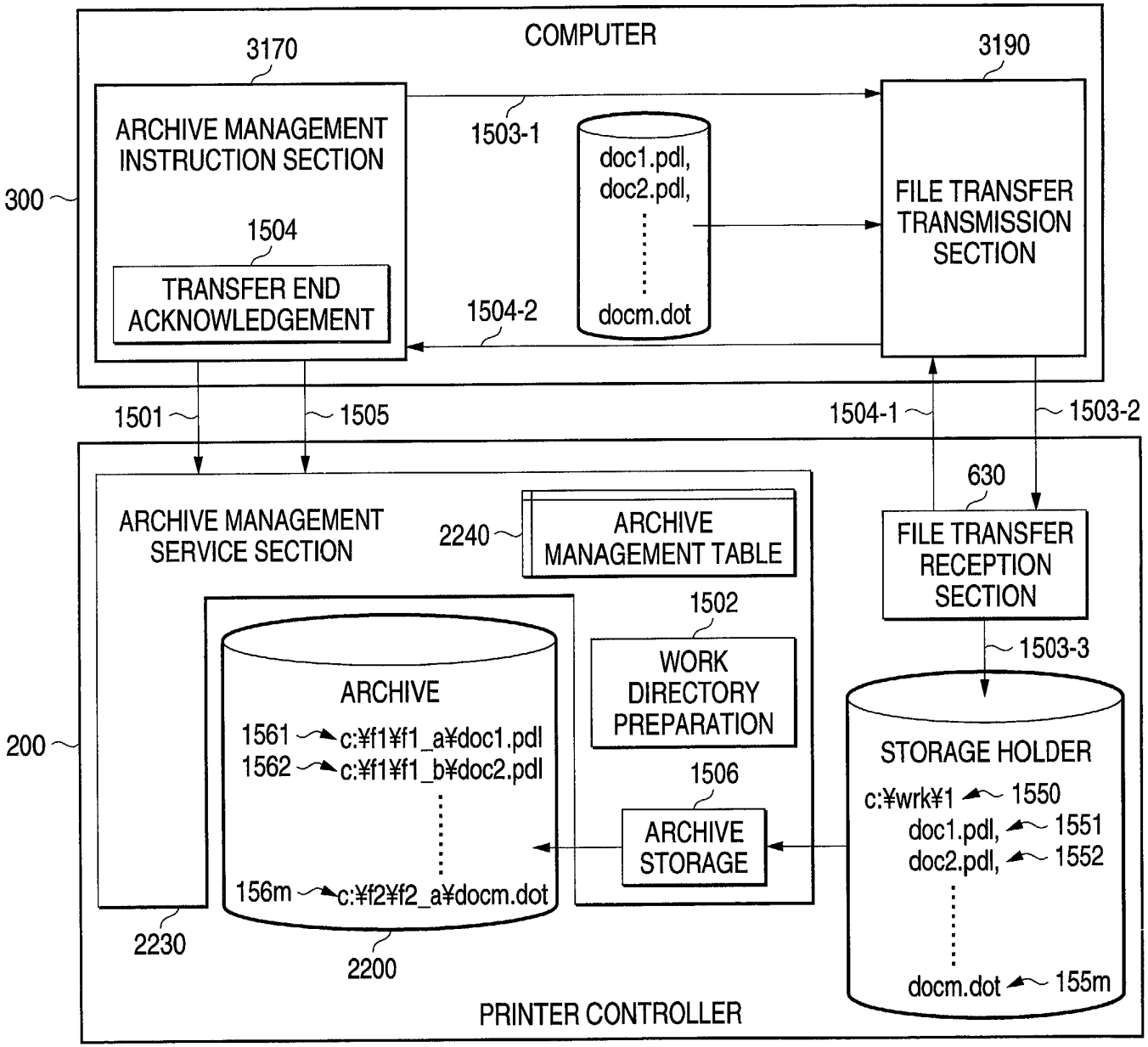
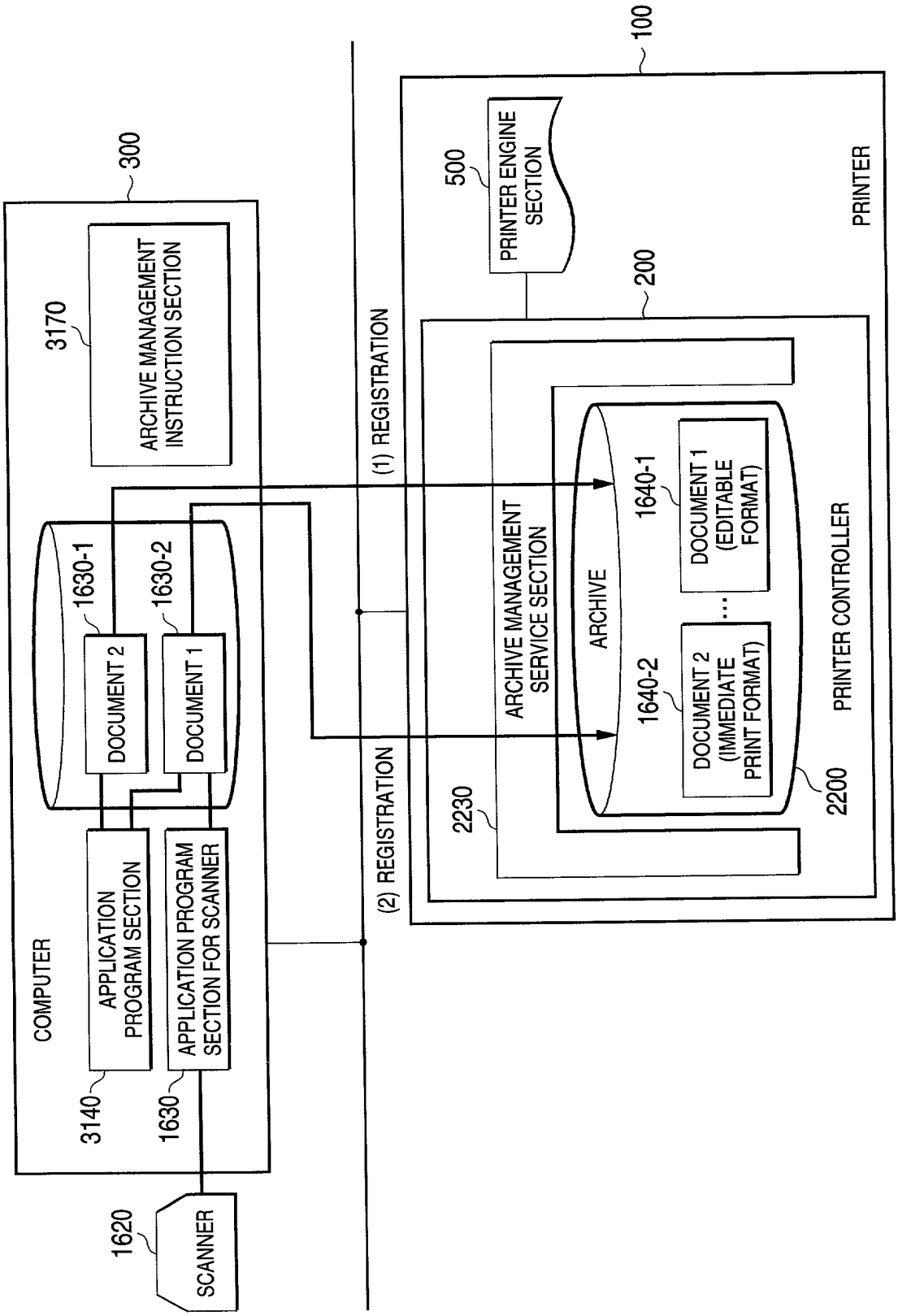

COMPUTER
3170
ARCHIVE MANAGEMENT INSTRUCTION SECTION
1504
TRANSFER END ACKNOWLEDGEMENT
300
1503-1
1504-2
doc1.pdl,
doc2.pdl,
docm.dot
3190
FILE TRANSFER TRANSMISSION SECTION
1501
1505
1504-1
1503-2
630
FILE TRANSFER RECEPTION SECTION
ARCHIVE MANAGEMENT SERVICE SECTION
2240
ARCHIVE MANAGEMENT TABLE
1502
WORK DIRECTORY PREPARATION
1506
ARCHIVE STORAGE
ARCHIVE
1561 c:¥f1¥f1_a¥doc1.pdl
1562 c:¥f1¥f1_b¥doc2.pdl
156m c:¥f2¥f2_a¥docm.dot
2230
2200
1503-3
STORAGE HOLDER
c:¥wrk¥1 1550
doc1.pdl, 1551
doc2.pdl, 1552
docm.dot 155m
200
PRINTER CONTROLLER

FIG. 16


COMPUTER
300
3170
ARCHIVE MANAGEMENT INSTRUCTION SECTION
1630-1
DOCUMENT 2
1630-2
DOCUMENT 1
APPLICATION PROGRAM SECTION
APPLICATION PROGRAM SECTION FOR SCANNER
3140
1630
1620
SCANNER
(1) REGISTRATION
(2) REGISTRATION
100
PRINTER
500
PRINTER ENGINE SECTION
200
PRINTER CONTROLLER
ARCHIVE MANAGEMENT SERVICE SECTION
2230
ARCHIVE
1640-1
DOCUMENT 1 (EDITABLE FORMAT)
1640-2
DOCUMENT 2 (IMMEDIATE PRINT FORMAT)
2200

TOET20"h89E0660

FIG. 17

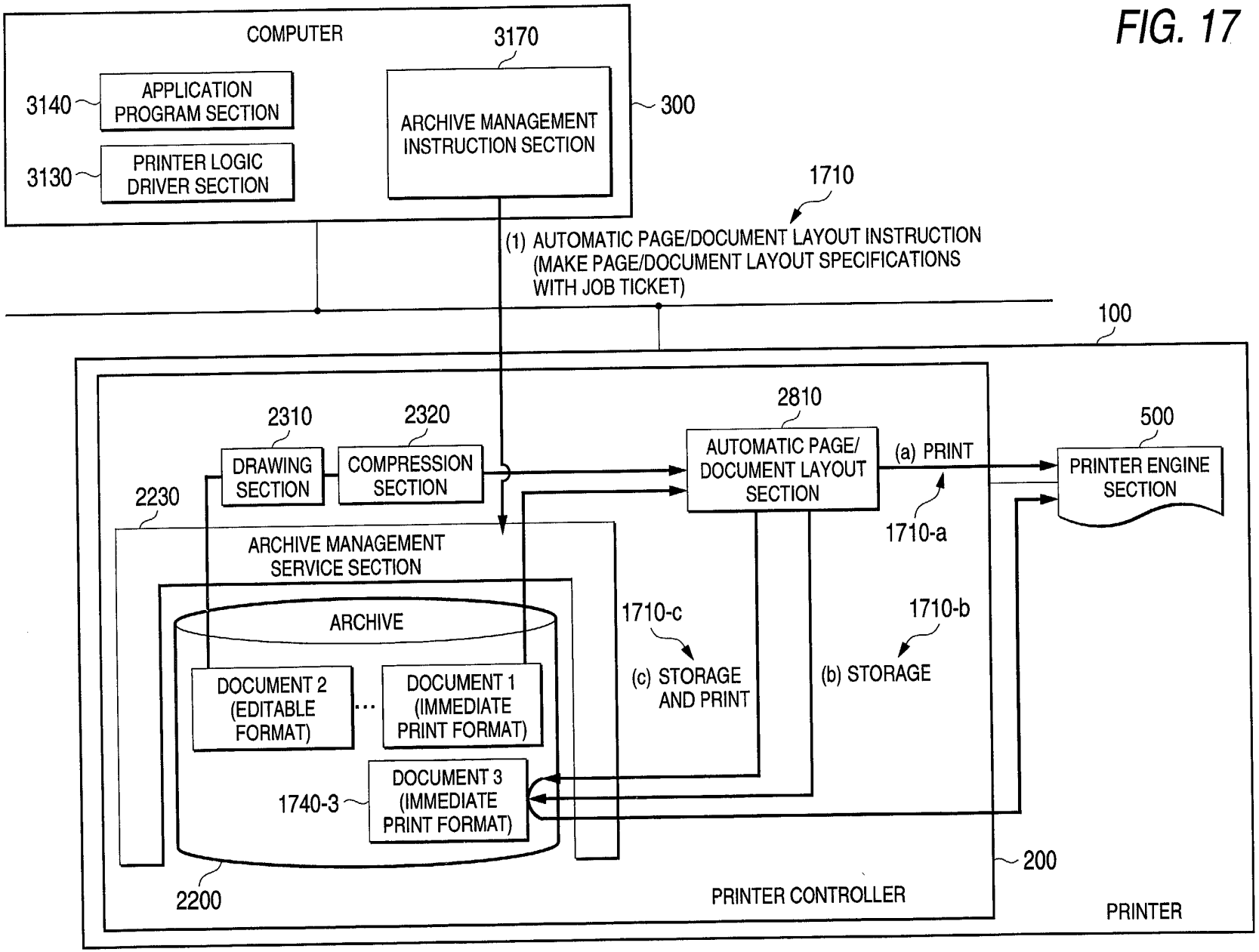
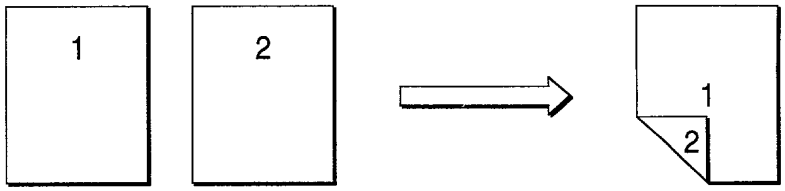


FIG. 18

DOUBLE-SIDED PRINTING

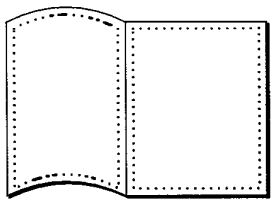
SINGLE-SIDED ORIGINAL IS PRINTED ON BOTH SIDES OF SHEET



BINDING POSITION

PAPER IS BOUND IN EITHER OF THE FOLLOWING TWO DIRECTIONS:

LONG-SIDE BINDING



SHORT-SIDE BINDING

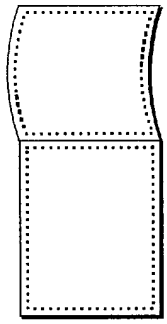
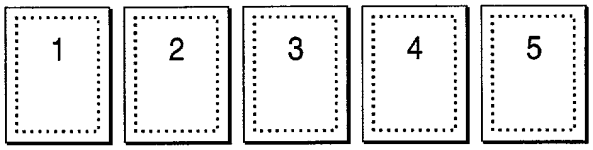


FIG. 19

N UP

(a) 1 UP

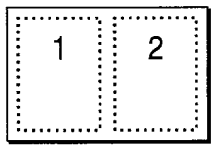
ONE PAGE OF ORIGINAL IS PUT ON ONE SIDE OF SHEET



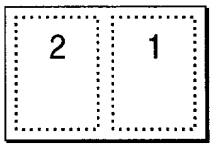
(b) 2 UP

TWO PAGES OF ORIGINAL ARE PUT ON ONE SIDE OF SHEET TOGETHER IN ANY OF THE FOLLOWING THREE MANNERS:

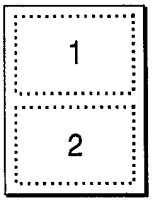
LEFT TO RIGHT



RIGHT TO LEFT



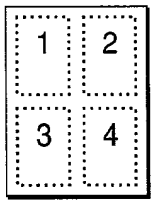
TOP TO BOTTOM



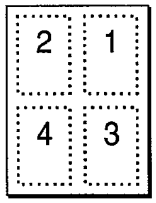
(c) 4 UP

FOUR PAGES OF ORIGINAL ARE PUT ON ONE SIDE OF SHEET TOGETHER IN ANY OF THE FOLLOWING FOUR MANNERS:

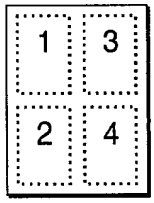
LEFT TO RIGHT



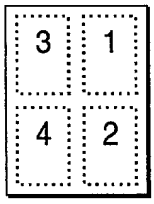
RIGHT TO LEFT



LEFT TO BOTTOM



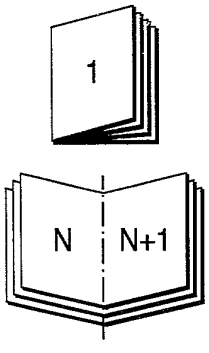
RIGHT TO BOTTOM



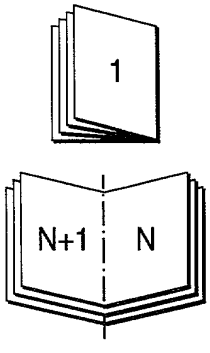
SADDLE STITCH

PAGES ARE TURNED IN ANY OF THE FOLLOWING THREE MANNERS:

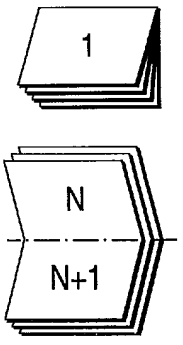
LEFT OPEN



RIGHT OPEN



UPWARD OPEN



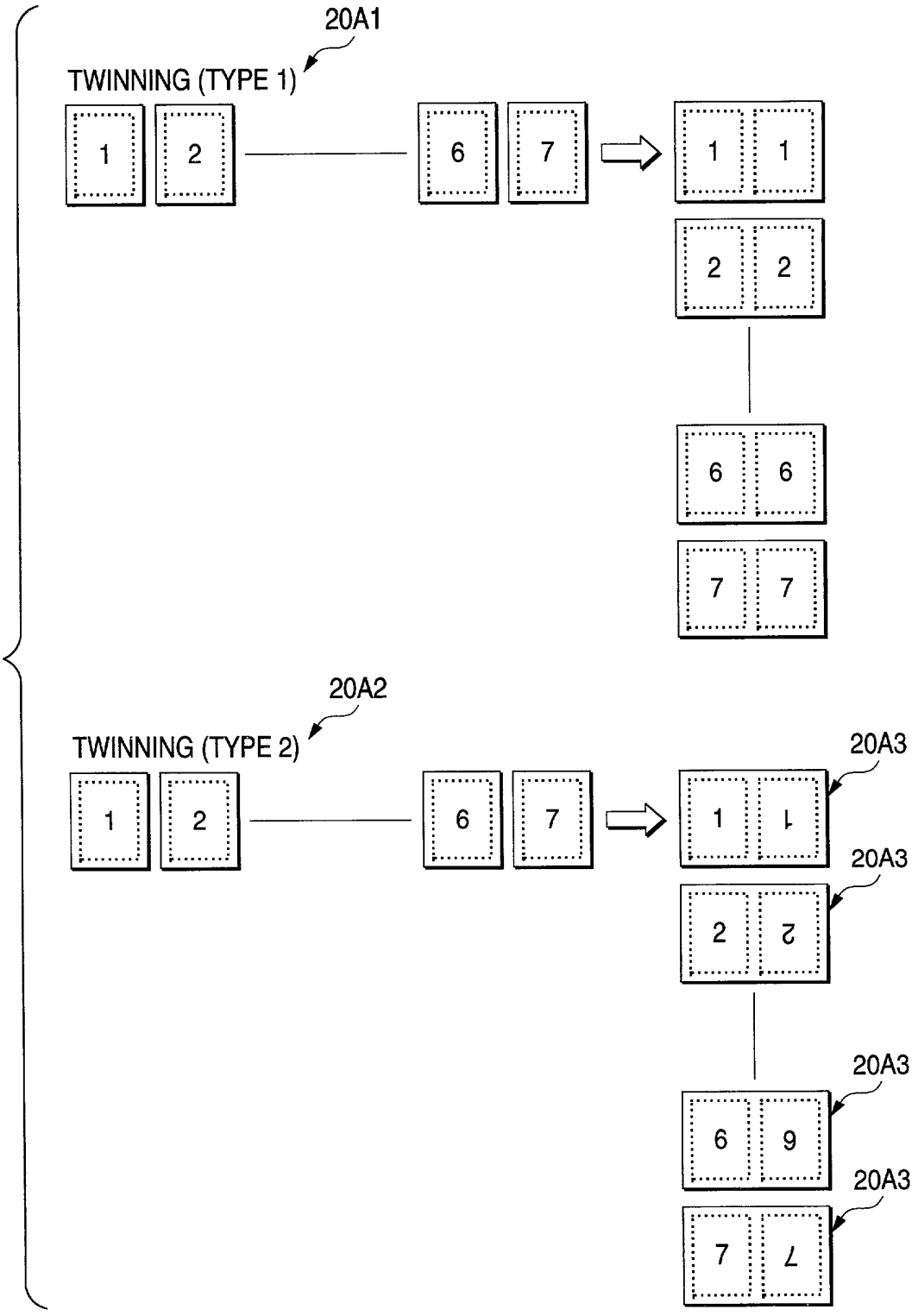

20A1
TWINNING (TYPE 1)
1
2
6
7
1
1
2
2
6
6
7
7
20A2
TWINNING (TYPE 2)
1
2
6
7
1
1
20A3
2
2
20A3
6
9
20A3
7
7
20A3

FIG. 20

FIG. 21

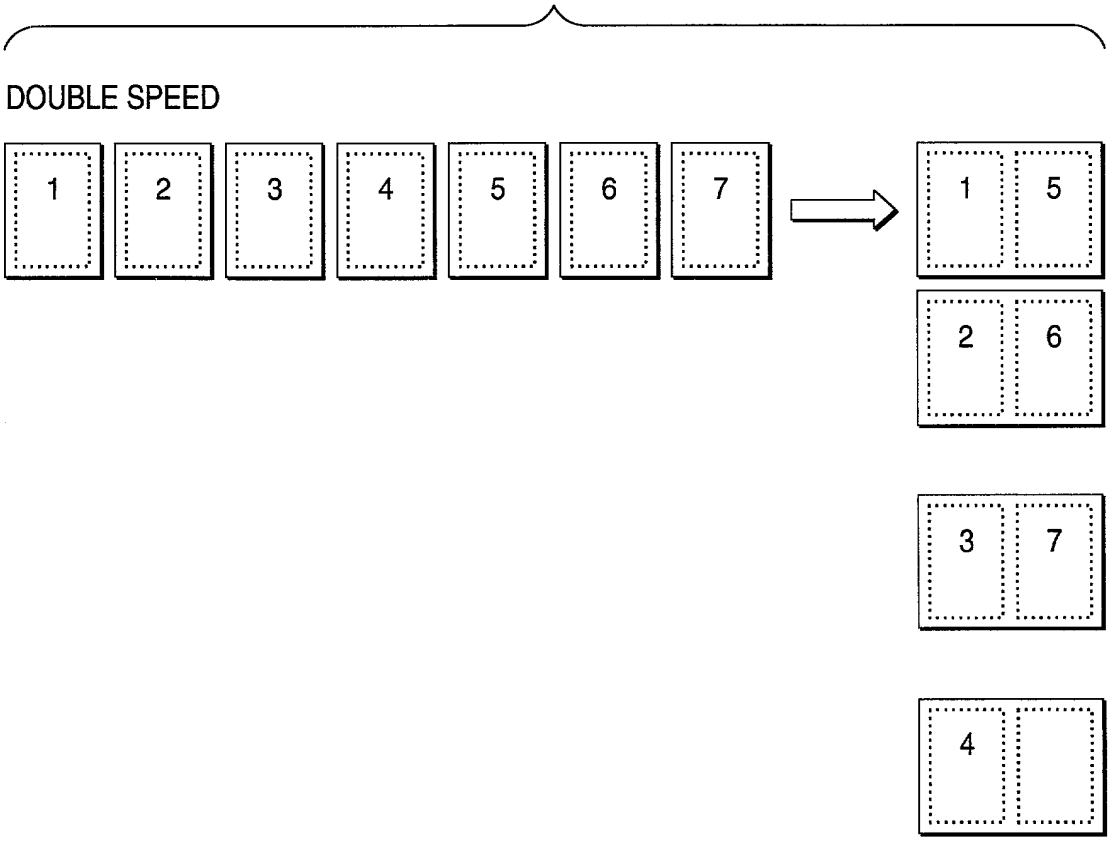


FIG. 22

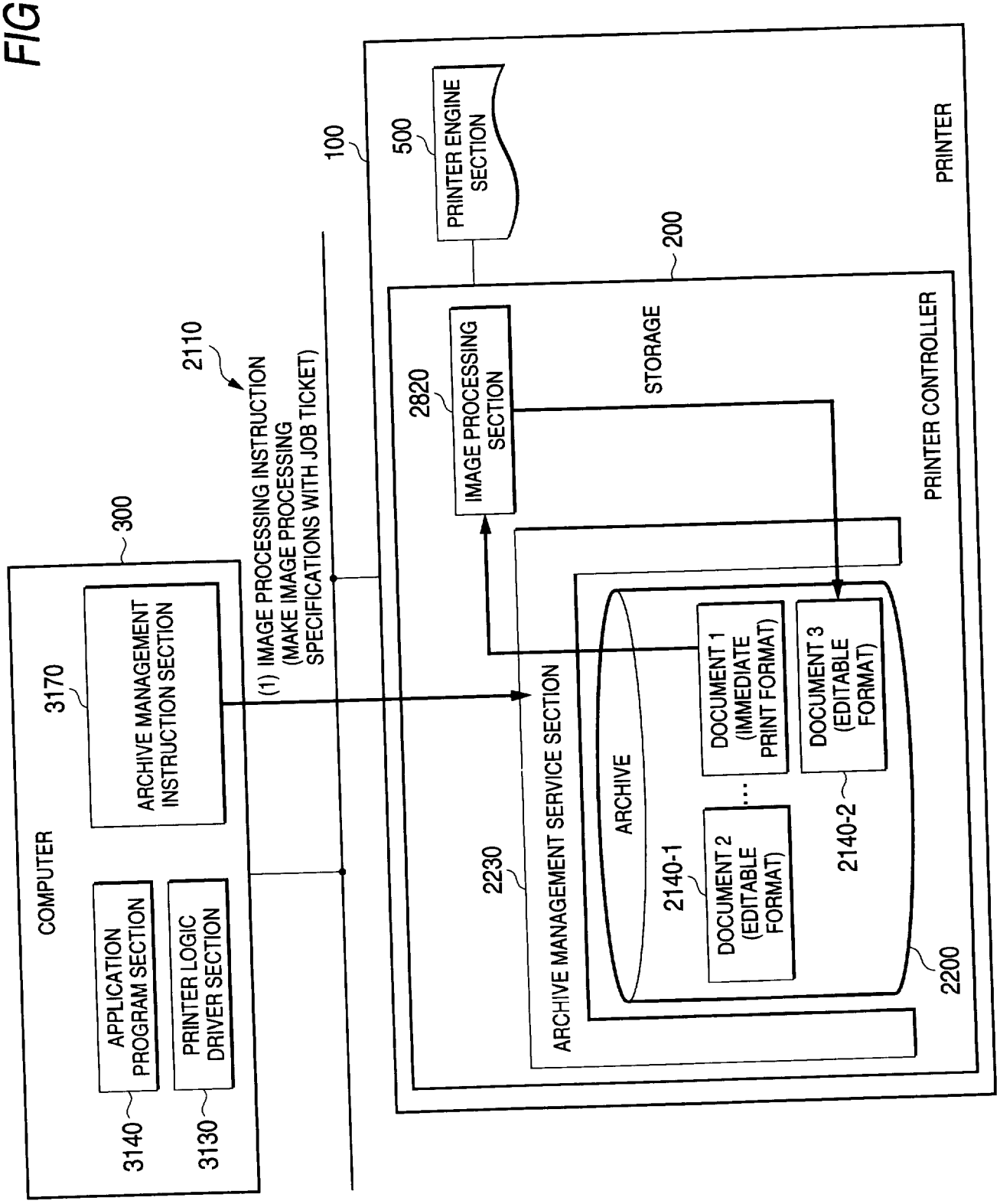
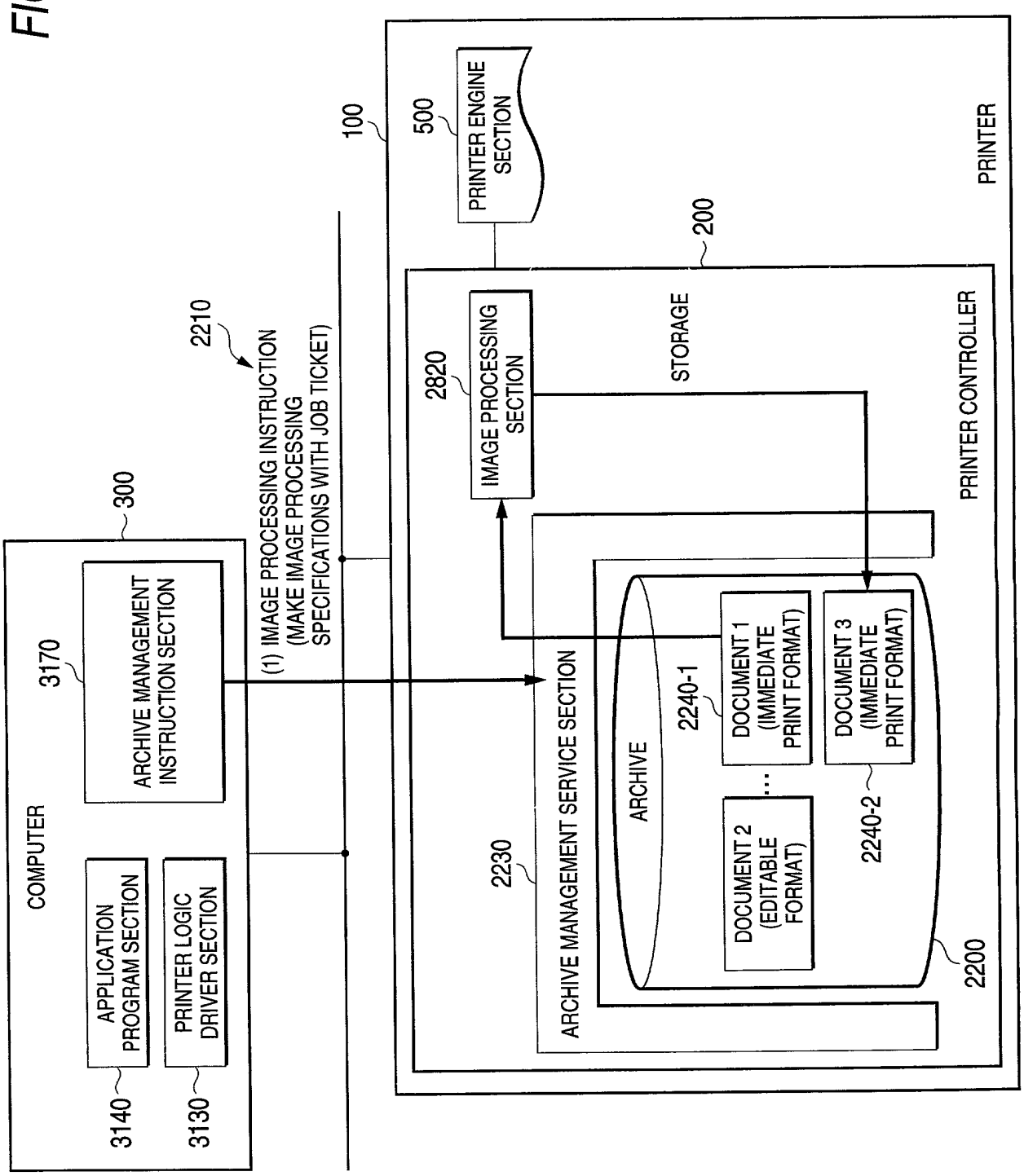

COMPUTER
300
3170
ARCHIVE MANAGEMENT INSTRUCTION SECTION
APPLICATION PROGRAM SECTION
PRINTER LOGIC DRIVER SECTION
3140
3130
2110
(1) IMAGE PROCESSING INSTRUCTION (MAKE IMAGE PROCESSING SPECIFICATIONS WITH JOB TICKET)
100
PRINTER
500
PRINTER ENGINE SECTION
200
PRINTER CONTROLLER
2820
IMAGE PROCESSING SECTION
STORAGE
ARCHIVE MANAGEMENT SERVICE SECTION
2230
ARCHIVE
2140-1
DOCUMENT 2 (EDITABLE FORMAT)
DOCUMENT 1 (IMMEDIATE PRINT FORMAT)
DOCUMENT 3 (EDITABLE FORMAT)
2140-2
2200

FIG. 23


COMPUTER
3170
ARCHIVE MANAGEMENT INSTRUCTION SECTION
300
APPLICATION PROGRAM SECTION
3140
PRINTER LOGIC DRIVER SECTION
3130
2210
(1) IMAGE PROCESSING INSTRUCTION (MAKE IMAGE PROCESSING SPECIFICATIONS WITH JOB TICKET)
100
PRINTER
500
PRINTER ENGINE SECTION
200
PRINTER CONTROLLER
2820
IMAGE PROCESSING SECTION
STORAGE
ARCHIVE MANAGEMENT SERVICE SECTION
2230
ARCHIVE
2240-1
DOCUMENT 1 (IMMEDIATE PRINT FORMAT)
DOCUMENT 2 (EDITABLE FORMAT)
DOCUMENT 3 (IMMEDIATE PRINT FORMAT)
2240-2
2200